User Manual

912T Pocket Receiver

2003-10-29/ Ver. C

Contents

1 Introduction 1

2 Description 1

3 Basic Functions 3

4 Display Menu 4

4.1 Display Menu Description 5

4.2 Function Settings 6

5 Programmable Functions 7

6 Programming the 912T 8

6.1 System Functions 9

7 Operation and Maintenance 9

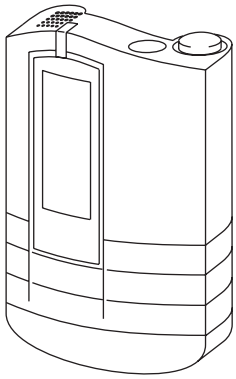
1 Introduction

This document provides a description of pocket receiver 912T and its functionality. The 912T is included in the On-site Paging System. This User Manual describes the 912T in default programmed version.

Additional functions and factory settings are also included, providing a full description of the functionality. Your system may not supply all functions described in this document, for information about your system, please contact your system administrator.

The following documents are recommended as a complement:

- System Description, On-site Paging System, TD 91034GB
- User Guide 912T Pocket Receiver, TD 91792GB



Functions	912T
Characters per message	120
Messages stored	10
Characters in memory	480
Group paging numbers	5
Absence indication	Yes
Time stamp	Yes
Time display	Yes
Out of range indication	Yes
Vibrator	Option
EX-Classification	Option

001

Figure 1. Pocket Receiver 912T

2 Description

912T is a robust pocket receiver used for messaging within the On-site Paging System. It is designed for tough environments where there is a need for long text presentation.

This pocket receiver is dust and waterproof, IP 66 classified and highly resistant to electrostatic discharges. As an option there is also an intrinsically safe version (EEx ib IIC T4) suitable in explosive atmospheres.

The pocket receiver is easy to carry and operate. It is flexible; you pick from a range of functions using just one button. Messages can be displayed and sent with Roman, Cyrillic, Greek, and Hebrew as well as Arabic characters.

The receiver is equipped with a two-line display, which can present 2x12 characters at the same time. A message is automatically displayed when received. The pocket receiver stores up to ten messages, with a total of 480 characters. Each message can be up to 120 characters long. The display normally shows your name/number in the system - the so called identity.

While storing/charging the receiver in the T967 storage/charging rack, you receive messages, give absence indication and save battery. You can customise the beep signal to give a special signal for a selected kind of message.

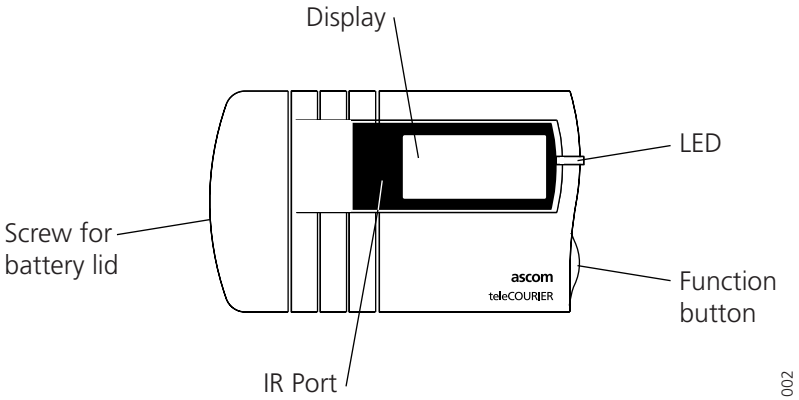


Figure 2. Constituent parts of 912T

Display symbols

- New message
- More than one message stored
- Message is longer than two lines
- Error / Out of range indication
- Low battery
- Audible signal switched off
- Time stamp
- Info page
- Call number presentation. Message is added to one of the groups
- Message is diverted to your receiver

Display

The display normally shows the identity and the current time.

The receiver is programmed with a unique identity within the system; it can be your call number, your name or similar. Below this text, icons appears for example to notify you when you receive a new message, or to keep track of functions you have activated like time stamp.

If an error occurs, the symbol for error indication appears.

The display simultaneously shows 2×12 characters, longer messages automatically scroll on the display, two lines at a time. The system administrator can change all pre-programmed texts.

Function Button

The function button is placed on the side of the receiver. All handling of the receiver is carried out with long and short presses on this button.

LED

A flashing LED shows that a message is received. It also flashes when turning on the receiver.

IR Port

When the pocket receiver is stored in the storage/charging rack, the radio receiver part in the pocket receiver is automatically turned off. All communication is instead run by the IR (infrared) port to save battery.

Battery

When not used, keep the pocket receiver in the storage/charging rack or turned off which saves battery.

When the low battery symbol is displayed, replace or charge the battery; the performance of the radio receiver is otherwise not guaranteed. Use any LR3-sized battery or the rechargeable Inductive Battery Pack (IBP1B).

To change battery, see *7 Operation and Maintenance* on page 9.

Clip

The 912T is equipped with a clip that can be fastened to a pocket or another piece of clothing.

3 Basic Functions

Turning on the receiver

Make one short press on the function button. The identity is shown in the display.

Turning off the receiver

Make two long presses on the function button.

Note: Unless you have the memory function activated, you erase all messages by turning the receiver on and off.

Receiving a message

A beep signal is heard and the message automatically scrolls on the display for one minute. The new message symbol is shown until the message is accepted.

The double arrow symbol indicates that the message is longer than 24 characters. Make a short press on the function button to display the next part of the message.

Accepting a message

Make one short press on the function button to accept a message. Once a message is accepted, the display shows the next message. The new message symbol stops flashing when all messages are accepted.

If you have not read and accepted a message within the first minute, only the 24 first characters of the message are shown. To display the rest of the message make a short press on the function button.

Stepping through several messages

Make a short press on the function button to make the first message appear. Repeat for next message.

Erasing a message

Step to the message you want to erase and make a long press on the function button until ******** appears.

Switching on/off the audible signal

Make a long press followed by a short press on the function button "Tone?" is displayed. Make a long press to switch between On/Off.

When the beep signal is turned off, the symbol is shown in the display and no beep signal is heard when a message arrives.

Note: All pagings with high priority override a switched off audible signal.

4 Display Menu

The display menu is your aid when you set your personal parameters.

A long press on the function button accepts and accesses the function settings while a short press steps between the settings, ended by a long press to confirm the choice.

"Exit?" takes you back to the starting point where the identity is shown. This is also automatically done after 30 seconds.

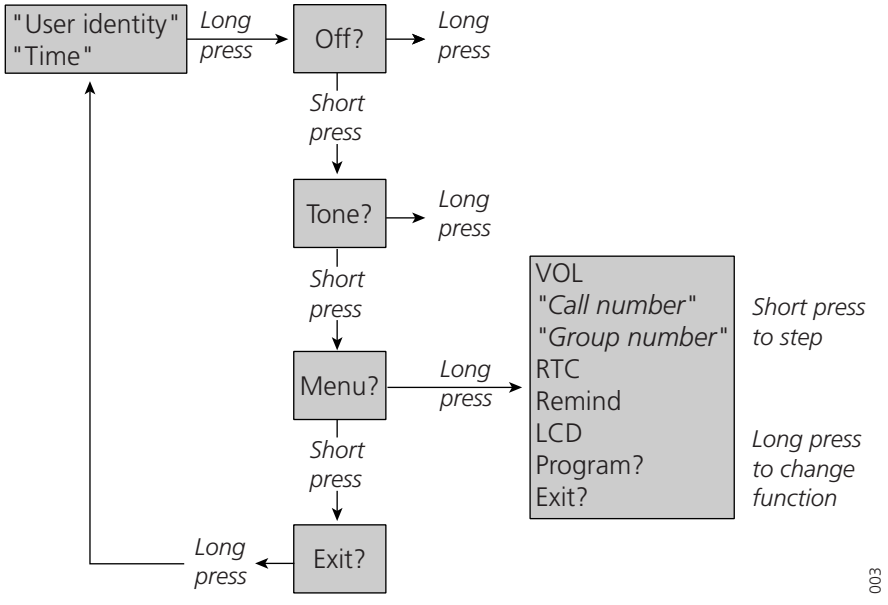


Figure 3. Display menu 912T

4.1 Display Menu Description

Use the display menu to change parameters in the 912T, step to the required function and activate or deactivate it.

Note: Depending on your system, some functions may not apply to your 912T.

It is also possible to change the display text by using the software Pocket Unit Programmer.

VOL

This function changes the beep signal volume. Choose between three volumes, a volume step option, and a vibrator if your receiver has this option.

To receive pagings silently, see *3 Basic Functions* . The system administrator can change the melody of the signal beep, see *6 Programming the 912T* on page 8.

Call Number

Your individual call number is set by your system administrator.

Group Number

In addition to the individual call number, your pocket receiver receives pagings on up to five additional call numbers. These could, for example, be group pagings that you take part of, or messages diverted to you. You can enable/disable pagings to each of these five numbers.

The call number presentation symbol ┼ at the end of the message indicates that the call was received by one of the five extra paging numbers.

RTC, Time Stamp

The RTC (real time clock) in the paging system provides your pocket receiver with the time.

The time when the message was received is shown at the end of each message. The function is indicated by the time stamp symbol |⌙|.

Note: The time stamp is not displayed if the message is older than 24 hours or consists of too many characters.

Remind

If you have the remind function activated, a beep signal sounds on regular intervals until you accept the message.

LCD

This function allows you to change the orientation of the text in the display, depending on how you carry your receiver. The text is rotated 180 degrees.

Program?

The receiver has to be in the program mode with the text "PROGRAM" shown while remote programming via radio.

Exit?

"Exit?" will take you to the starting point in the display menu, where the identity is shown.

4.2 Function Settings

Make a long press followed by two short presses so "Menu?" is displayed. From here you can choose between the following functions:

Change beep signal volume (VOL)

When "Menu?" is displayed, make a long press. "VOL" will appear, after the text a digit is displayed. The volume levels sound from 1 (lowest) to 3 (highest). The stair symbol gives you a beep signal that starts low and gets higher.

Press and hold the function button. Release the button at the desired beep signal.

If you have the vibrator option, this will be indicated by "VIB". "VIB + VOL 0" indicates vibrator signal only, "VIB + VOL 1" indicates vibrator plus beep signal together with beep signal number one.

Show individual call number (Call Number)

When "Menu?" is displayed, make a long press followed by a short press. "xxxxxxOn" is displayed, the first part is your individual call number.

Note: Your individual call number always is enabled.

Activate/deactivate paging to a group number (Group Number)

When "Menu?" is displayed, make a long press followed by two short presses. Additional group numbers and the text On/Off appears. Make a long press to switch between On and Off, release the button at the desired setting. This enables/disables pagings to this number.

Activate/deactivate time stamp function (RTC)

When "Menu?" is displayed, make a long press followed by short presses until "RTC" is displayed. Make a long press to switch between On and Off, release the button at the desired setting. This activates/deactivates the time stamp function.

Activate/deactivate reminder beep signal (Remind)

When "Menu?" is displayed, make a long press. Make short presses until "Remind" is displayed. Make a long press to switch between On and Off, release the button at the desired setting. This activates/deactivates reminder beep signal that sounds on regular intervals until a message is accepted.

Change orientation of display text (LCD)

When "Menu?" is displayed, make a long press followed by short presses until "LCD" is displayed. Make a long press to change the orientation of the display text.

Activate programming mode (Program?)

When "Menu?" is displayed, make a long press followed by short presses until "Program?" appears. Make a long press to activate the programming mode, "PROGRAM" appears.

When you program by remote, the receiver must show "PROGRAM". The receiver will restart after receiving the correct parameters.

Return to main menu (Exit?)

Use short presses to step to the "Exit?" option that appears last in every menu level, and make a long press. This returns you to the main menu (with the identity).

5 Programmable Functions

These functions vary depending on the 912T you have as well as system parameters. It is the system administrator who activates the programmable functions.

Memory

This function saves your messages, even if you turn the receiver off.

Note: If you replace the battery you erase all messages, even if the memory function is activated.

Test Paging

Each time you take the receiver out of the storage/charging rack, the system automatically tests the receivers paging abilities.

Take the receiver out from the charging rack as usual. After three minutes check for error messages. If an error message is displayed the test paging has failed, contact the system administrator.

Beep Signals

To distinguish between different types of paging messages, you can choose between seven different beep signals. More beep signals can be programmed by your system administrator, see *6 Programming the 912T* on page 8.

Absence Indication

With absence indication activated, and the receiver placed in the storage/charging rack, anyone who tries to send you a message receives an absence indication. In some cases, the paging may be diverted to somebody else.

Info-Page

The info-page consists of information that is regularly sent to the pocket receiver, for example a value you need to monitor.

The info-page symbol indicates an info-page message. Step beyond the last received message with a short press on the function button to find the info-page.

Note: No beep signal is heard when an info-paging is received.

Call Diversion

Pagings, originally intended for someone else, can be automatically diverted to your receiver. The call diversion symbol ⁄ indicates that the call has been diverted to your receiver. The call number to which the call was originally intended is displayed after the symbol.

6 Programming the 912T

The programming of 912T shall only be performed by the system administrator which sets parameters and relevant functions in the receiver to customise its functionality. Some functions can for example be available to the user while others are locked.

The parameter memory consists of an EEPROM. The pocket receiver is programmed by using a computer containing the software application *Pocket Unit Programmer (PUP)* included in the software package *WinBK*.

The receiver is usually programmed while it is in the storage/charging rack. It is also possible to program the receiver remotely by radio.

Receiver Operation

Setting parameters provides following functions:

Display on/off	should the display be active or not when the receiver is in the storage/charging rack.
Automatic on/off	sets the receiver to start/stop at pre-set times.
Text presentation	longer text messages either scroll on the display or are shown in segments; this can be customised.
LED behaviour	sets the LED to blink in a customised sequence
Beep signals	can be customised, but the PUP has several standard beep signals to choose from
Display menu	all text in the display can be changed to fit your own language or terminology

Note: This document uses default values.

Test paging

Each time you take the receiver out of the storage/charging rack, the system automatically tests the receiver's paging abilities. The receiver expects a paging from the system within three minutes after you take it out of the storage/charging rack. If this paging is not received, an error message appears on the display.

User permissions

It is possible to restrict access to functions. You can choose to lock user parameters preventing the user from accessing these functions. As a result, the function is no longer accessible to the user and disappears from the receiver.

These parameters are: Remind beep signal, RTC, ICT, VOLume, Off, Silent, Set, LCD orientation, PROGRAMming mode and Group numbers.

6.1 System Functions

The following system functions are set in the system and work together with the 912T.

Info-Page

This function is used to for example monitor measurements. The info-page consists of information that is automatically updated at regular intervals.

The system sends pagings containing information to the receiver. The paging is marked as an info-page and the receiver stores the information. You find the info-page stored last in the list of messages in the receiver. The system continues to send pagings continuously updating the information. You can have up to six different info-pagings in the 912T.

The beep signal does not normally sound when an info-message is received; but this can be custom set. You can, for example, specify an alarm value that triggers an alarm signal.

Auto Accept/Delete

The system can be used to send pagings that feature the commands delete and accept. This is for example used to delete/accept a message after a pre-set time.

Auto accept/delete can for example be used as follows: In a hospital all the nurses receive a group paging of an alarm in a room. One nurse goes to attend the patient, presses a button that sends a command to the system that help is present. The system then sends a group paging that clears this specific paging from all other receivers.

7 Operation and Maintenance

Storing the 912T

While the receiver is not in use, place it in the T967 storage/charging rack, to save battery.

Note: If you are using a rechargeable battery, make sure to place your receiver regularly in the charging rack, for example every night.

Replacing the battery

The battery is placed on the bottom of the receiver. Unscrew the screw and flip up the cover. Take the battery out. Make a long press on the function button to reset the battery warning. Replace the battery with any LR3-sized battery or the rechargeable Inductive Battery Pack, IBP1B. Insert it according to the markings, close the cover and firmly fasten the screw.

IMPORTANT: Charging or replacement of battery of EX-version is not permitted in restricted area.
Use only approved battery types in combination with EX-version.
For approved battery types, see Certificate of Conformity, PTB 02 ATEX 2043.

Note: It can take up to 10 seconds before the receiver starts up. Check the display that no error messages appear.

Note: If you replace the battery you erase all messages, even if the memory function is activated.

Charging the battery

Place the receiver in the T967 storage/charging rack. The first time you use the inductive battery, IBP1B, charge it for approximately 14 hours. After that, store the receiver in the storage/charging rack whenever you are not using it.

IMPORTANT: Charging or replacement of battery of EX-version is not permitted in restricted area.
Use only approved battery types in combination with EX-version.
For approved battery types, see Certificate of Conformity, PTB 02 ATEX 2043.

Note: The low battery symbol ▭ indicates a low battery. Change or charge the battery immediately, the performance of the radio receiver is otherwise not guaranteed.

Handling error indication

The error indication/out of range symbol ⚠ indicates that you probably are outside the coverage area. Check that the receiver is within coverage area.

If this symbol remains, it can be an indication of system error or that the radio in the receiver is out of order. Try to restart the receiver. If the symbol still remains, contact the system administrator.

Note: The error indication/out of range symbol ⚠ together with the text 912TVX.XX, indicates a parameter error. Reprogram the receiver using the PUP.